COMPLETE LISTING OF THE CLAIMS

Please amend claims 5, 7, 20, 22, 28, and 30 as follows

1. (Original) A method comprising:

receiving information from a subscriber unit of a wireless communication system, the information being indicative of signals detected by the subscriber unit in the wireless communication system;

dividing an area where the subscriber unit is suspected to be into a plurality of sectors; and

scoring the sectors based on the information, wherein a score for a respective sector indicates a likelihood that the subscriber unit is in the respective sector.

- (Original) The method of claim 1, further comprising scoring the sectors based on the information for each of a plurality of timing errors hypothesized for the subscriber unit.
- 3. (Original) The method of claim 1, further comprising: identifying a subset of the sectors that have high scores; and sending position assistance information to the subscriber unit based on the subset of the sectors.
- 4. (Original) The method of claim 3, wherein the position assistance information identifies a set of global positioning system (GPS) satellites.
- 5. (Currently amended) The method of claim 1, further comprising: identifying a subset of the sectors that have high scores; dividing each <u>sector</u> of the subset of sectors that have high scores into sub-sectors; and

scoring the sub-sectors based on the information, wherein a score for a given sub-sector indicates a likelihood that the subscriber is in the given sub-sector.

6. (Original) The method of claim 5, further comprising: identifying a subset of the sub-sectors that have high scores; and

sending position assistance information to the subscriber unit based on the subset of the sub-sectors.

- 7. (Currently amended) The method of claim 5, further comprising: identifying a subset of the sub-sectors that have high scores; dividing each <u>sub-sector</u> of the subset of sub-sectors into sub-sub-sectors; scoring the sub-sub-sectors; identifying a subset of the sub-sub-sectors that have high scores; and sending position assistance information to the subscriber unit based on the subset of the sub-sub-sectors.
- 8. (Original) The method of claim 1, wherein the information includes phase offsets relative to system time, determined from the signals detected by the subscriber unit.
 - 9. (Original) The method of claim 1, further comprising: identifying a first subset of the sectors that have high scores;

identifying a second subset of the sectors by removing one or more sectors from the first subset based on a determination that the one or more sectors correspond to a location of a repeater in the wireless communication system; and

sending position assistance information to the subscriber unit based on the second subset of the sectors.

- 10. (Original) The method of claim 1, wherein scoring the sectors includes increasing a given score of a given sector when one or more detected signals correlate with expected signals of one or more base stations in proximity to the given sector.
- 11. (Original) The method of claim 1, wherein scoring the sectors includes modifying a given score of a given sector when a repeater is associated with the given sector.

12. (Original) A method comprising:

receiving information from a subscriber unit of a wireless communication system, the information being indicative of signals detected by the subscriber unit in the wireless communication system;

identifying two or more probable locations of the subscriber unit based on the information; and

sending position assistance information to the subscriber unit based on the two or more probable locations.

- 13. (Original) The method of claim 12, wherein the position assistance information identifies a set of global positioning system (GPS) satellites.
 - 14. (Original) A method comprising:

detecting signals associated with base stations of a wireless communication system;

sending information from a subscriber unit, the information being indicative of the detected signals; and

receiving position assistance information that identifies two or more probable locations of the subscriber unit.

- 15. (Original) The method of claim 14, wherein the position assistance information identifies a set of global positioning system (GPS) satellites.
- 16. (Original) The method of claim 15, further comprising identifying a position of the subscriber unit using signals from one or more satellites in the set of GPS satellites.
- 17. (Original) A computer-readable medium comprising computer-readable instructions that when executed in a position determination entity (PDE) cause the PDE to:

divide an area where a subscriber unit of a wireless communication system is suspected to be into a plurality of sectors; and

score the sectors based on information received from the subscriber unit, the information being indicative of signals detected by the subscriber unit in the wireless communication system, wherein a score for a respective sector indicates a likelihood that the subscriber is in the respective sector.

- 18. (Original) The computer-readable medium of claim 17, further comprising instructions that cause the PDE to score the sectors based on the information for each of a plurality of timing errors hypothesized for the subscriber unit.
- 19. (Original) The computer-readable medium of claim 17, further comprising instructions that cause the PDE to:

identify a subset of the sectors that have high scores; and send position assistance information to the subscriber unit based on the subset of the sectors.

20. (Currently amended) The computer-readable medium of claim 17, further comprising instructions that cause the PDE to:

identify a subset of the sectors that have high scores;

divide each <u>sector</u> of the subset of sectors that have high scores into sub-sectors; and

score the sub-sectors based on the information, wherein a score for a given sub-sector indicates a likelihood that the subscriber is in the given sub-sector.

21. (Original) The computer-readable medium of claim 20, further comprising instructions that cause the PDE to:

identify a subset of the sub-sectors that have high scores; and send position assistance information to the subscriber unit based on the subset of the sub-sectors.

22. (Currently amended) The computer-readable medium of claim 20, further comprising instructions that cause the PDE to:

identify a subset of the sub-sectors that have high scores;

divide each <u>sub-sector</u> of the subset of sub-sectors into sub-sub-sectors; score the sub-sub-sectors;

identify a subset of the sub-sub-sectors that have high scores; and send position assistance information to the subscriber unit based on the subset of the sub-sub-sectors.

- 23. (Original) The computer-readable medium of claim 17, further comprising instructions to cause the PDE to increase a given score of a given sector when one or more detected signals correlate with one or more base stations in proximity to the given sector.
- 24. (Original) The computer-readable medium of claim 17, further comprising instructions to cause the PDE to modify a given score of a given sector when a repeater is associated with the given sector.
- 25. (Original) A position determination entity (PDE) of a wireless communication system, the PDE comprising:
- a receiver to receive information from a subscriber unit of the wireless communication system, the information being indicative of signals detected by the subscriber unit in the wireless communication system; and
- a processor to divide an area where the subscriber unit is suspected to be into a plurality of sectors and score the sectors based on the information, wherein a score for a respective sector indicates a likelihood that the subscriber is in the respective sector.
- 26. (Original) The PDE of claim 25, wherein the processor scores the sectors based on the information for each of a plurality of timing errors hypothesized for the subscriber unit.
- 27. (Original) The PDE of claim 25, wherein the processor identifies a subset of the sectors that have high scores, the PDE further comprising a transmitter to send position assistance information to the subscriber unit based on the subset of the sectors.

- 28. (Currently amended) The PDE of claim 25, wherein the processor identifies a subset of the sectors that have high scores, divides each <u>sector</u> of the subset of sectors that have high scores into sub-sectors, and scores the sub-sectors based on the information, wherein a score for a given sub-sector indicates a likelihood that the subscriber is in the given sub-sector.
- 29. (Original) The PDE of claim 28, wherein the processor identifies a subset of the sub-sectors that have high scores, the PDE further comprising a transmitter to send position assistance information to the subscriber unit based on the subset of the sub-sectors.
- 30. (Currently amended) The PDE of claim 28, wherein the processor identifies a subset of the sub-sectors that have high scores, divides each <u>sub-sector</u> of the subset of sub-sectors into sub-sub-sectors, scores the sub-sub-sectors and identifies a subset of the sub-sub-sectors that have high scores, the PDE further comprising a transmitter to send position assistance information to the subscriber unit based on the subset of the sub-sub-sectors.
- 31. (Original) The PDE of claim 25, wherein the information includes phase offsets relative to system time, determined from the signals detected by the subscriber unit.
- 32. (Original) The PDE of claim 25, wherein the processor identifies a first subset of the sectors that have high scores, and identifies a second subset of the sectors by removing one or more sectors from the first subset based on a determination that the one or more sectors are a location of a repeater in the wireless communication system.
- 33. (Original) The PDE of claim 25, wherein the processor scores the sectors by increasing a given score of a given sector when one or more detected signals correlate with one or more base stations in proximity to the given sector.

- 34. (Original) The PDE of claim 25, wherein the processor scores the sectors by modifying a given score of a given sector when a repeater is associated with the given sector.
 - 35. (Original) An apparatus comprising:

means for receiving information from a subscriber unit of a wireless communication system, the information being indicative of signals detected by the subscriber unit in the wireless communication system; and

means for dividing an area where the subscriber unit is suspected to be into a plurality of sectors; and

means for scoring the sectors based on the information, wherein a score for a respective sector indicates a likelihood that the subscriber is in the respective sector.

36. (Original) The apparatus of claim 35, further comprising means for scoring the sectors based on the information for each of a plurality of timing errors hypothesized for the subscriber unit.